

Chapter 2 Relations and patterns Test Outline

Test: _____

- recognize **trends** (positive/negative linear; positive/negative non-linear; no pattern; no trend) in scatterplots (p. 13)
- draw a **line of best fit** for a scatterplot (p. 17)
- recognize a **linear relation** given a table of values (p. 18)
- recognize **direct variation** or **partial variation** by looking at a graph; by looking at equation; by looking at situation in words (p. 26, 27)
- write the **equation** of a relation in the form of direct relation or partial relation, given a situation. Use this equation to find an independent value given the dependent value; and to find the dependent value given the independent value (using substitution and algebra). (p. 26, 27)
- write the **equation** of a relation in the form of direct relation or partial variation, given a graph of a line (p. 37)
- find the **slope** of a line given two points (slope formula p. 34)
- find the **slope** of a line given the graph of the line (p. p. 37)
- write the **slope** of a vertical or horizontal line (p. 35)
- recognize that the bigger the number for the slope, the steeper the graph of the equation is (p. 35)
- write the **equation** of a relation in the form of direct relation or partial variation, given a table of values (p. 41)
- find the **slope** of an object (p. 44, 45)
- given the independent and dependent value in a direct variation, find the slope/constant of variation (p. 48)
- find the **scale factor** given the dimensions of an object and the dimensions of the drawing of the object (p. 54)

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